

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A metallic carrier for a catalytic converter comprising:
 - a corrugated sheet made of metal;
 - a flat sheet made of metal;
 - a core formed by superposing the corrugated sheet and flat sheet one on another and by rolling the corrugated sheet and the flat sheet in multiple times;
 - an unmelted brazing foil material ~~wound-disposed~~ around an outer periphery of an exhaust gas outlet side of the core; and
 - a metallic outer cylinder into which an assembly including the core and the unmelted brazing foil material is press-fitted, the metallic outer cylinder subjected to heat treatment to diffusionally join the corrugated sheet and flat sheet, and join an inner periphery of the metallic outer cylinder and an outer periphery of the core by the unmelted brazing foil material,
 - wherein a solder-rising preventing groove is defined over an entire circumference of the inner periphery of the outer cylinder at a position located on an exhaust gas inlet side of an area for joining the core,
 - wherein the unmelted brazing foil material is ~~wound-so-as-not-to-be-disposed~~ in the solder-rising preventing groove, and

wherein the solder-rising preventing groove prevents melted brazing foil material, melted by the heat treatment, from flowing toward the exhaust gas inlet side of the core.

2. (currently amended): The metallic carrier as claimed in claim 1, wherein another solder-rising preventing groove is defined over an entire circumference of the inner periphery of the outer cylinder at a position located on the exhaust gas outlet side of the area for joining the core, and

the another solder-rising preventing groove prevents the melted brazing foil material, melted by the heat treatment, from flowing toward the exhaust gas outlet side of the core.

Claims 3-5 (canceled)

6. (previously presented) The metallic carrier as claimed in claim 1, wherein the metallic outer cylinder defines a plurality of solder-rising preventing grooves on the inner surface thereof.

7. (previously presented) The metallic carrier as claimed in claim 1, wherein an edge of the core is above the solder-rising preventing groove.

8. (previously presented) The metallic carrier as claimed in claim 1, wherein the solder-rising preventing groove protrudes inwardly over the entire circumference of the inner periphery

of the outer cylinder, such that a portion of the core, which corresponds to the positioning of the solder-rising groove, is crushed.

Claim 9 (canceled)

10. (previously presented): The metallic carrier as claimed in claim 1, wherein the solder-rising preventing groove is provided on only one end of the outer cylinder.

11. (withdrawn) A method for manufacturing a metallic carrier for a catalytic converter comprising:

forming a core by superposing a corrugated sheet made of metal and a flat sheet made of metal one on another and by rolling the corrugated sheet and the flat sheet multiple times;

winding a brazing foil material around an outer periphery of an exhaust gas outlet side of the core;

providing a metallic outer cylinder, wherein an area for joining the core with an inner periphery of the metallic outer cylinder is defined at the exhaust gas outlet side of the core, and a solder-rising preventing groove is formed over an entire circumference of the inner periphery of the metallic outer cylinder at a position located on an exhaust gas inlet side of said area for joining the core with the inner periphery of the metallic outer cylinder,

press-fitting an assembly including the core and the brazing foil material into said metallic outer cylinder;

subjecting the assembly, including the core, the brazing foil material and the metallic outer cylinder to heat treatment to diffusionally join the corrugated sheet and the flat sheet, and to join the inner periphery of the metallic outer cylinder and an outer periphery of the core by the brazing foil material, wherein the area for joining the core and the metallic outer cylinder is restricted at the exhaust gas outlet side of the core by the solder-rising preventing groove.

12. (withdrawn) A method for manufacturing a metallic carrier for a catalytic converter comprising:

forming a core by superposing a corrugated sheet made of metal and a flat sheet made of metal one on another, and by rolling the corrugated sheet and the flat sheet multiple times;

winding a brazing foil material around an outer periphery of a central portion of the core;

providing a metallic outer cylinder, wherein an area for joining the core with an inner periphery of the metallic outer cylinder is defined at the central portion of the core, and solder-rising preventing grooves are formed over an entire circumference of the inner periphery of the metallic outer cylinder at a position located on a front side and a rear side of the area for joining the core with the inner periphery of the metallic outer cylinder,

press-fitting an assembly including the core and the brazing foil material into said metallic outer cylinder;

subjecting the assembly, including the core, the brazing foil material and the metallic outer cylinder to heat treatment to diffusionally join the corrugated sheet and the flat sheet, and to join the inner periphery of the metallic outer cylinder and an outer periphery of the core by the

brazing foil material, wherein the area for joining the core and the metallic outer cylinder is restricted at the central portion of the core by the solder-rising preventing grooves.

13. (withdrawn) The method for manufacturing according to claim 11, further comprising forming a plurality of solder-rising preventing grooves.

14. (withdrawn) The method for manufacturing according to claim 12, wherein the solder-rising preventing grooves are formed such that an edge of the core extends beyond the solder-rising preventing grooves.